

**Abstract Amendments**

**ABSTRACT OF THE DISCLOSURE:**

*Ad*

There is disclosed a method for evaluating measured data, in which the measured Measured analog data are digitalized by a plurality of analog-to-digital converters, and the digitalized measured data are disseminated to a processor, processed in the processor and the results are output. The digitalized measured data are intermediately stored in a shift register, in particular a FIFO memory, until completion of the acquisition of all digitalized measured data which are to be processed simultaneously, and read out together. After having read out all memory values All digitalized measured data necessary for simultaneously processing, the computation of the results is executed in the are read out from the shift register and are directed to a digital signal processor. A device for obtaining measured values from measured data includes an A/D converter, a digital signal processor and a shift register arranged between the A/D converter and the digital signal processor for computation of respective measured values.